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PN - RU2070290 C 19961210  
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 PR - RU19920008219 19921125  
 OPD - 1992-11-25  
 TI - WELL TESTER  
 IN - SITDYKOV GENA A (SU); ZOLOTOV BORIS V (SU)  
 PA - N PROIZV FIRMA GEOFIZIKA (SU)  
 IC - E21B47/00 ; E21B49/00

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TI - Well seam investigation apparatus - has hollow shaft having radial channels and sleeve fitted on shaft, ball valve fitted in sleeve lower end and circular groove in side surface  
 PR - RU19920008219 19921125  
 PN - RU2070290 C1 19961210 DW199730 E21B47/00 006pp  
 PA - (GEOF-R) GEOFIZIKA SCI PRODN ASSOC  
 IC - E21B47/00 ;E21B49/00  
 IN - SATDYKOV G A; ZOLOTOV B V  
 AB - RU2070290 The apparatus has a packet (1) with a packing bush and anchor, a hollow shaft (8) with radial channels, closed at the bottom by a sprung valve (13), connected to the hollow shaft, and a sleeve (7) fitted on the shaft with the possibility of interaction with the valve protrusions. The apparatus also has a ball valve located in the sleeve lower end, and its side surface has a circular groove which together with the hollow shaft outer surface forms a sample taking chamber. The apparatus has a number of micro-sample takers (9), each one made as a piston pair which consists of a cylinder rigidly connected to the sleeve and a piston (10) fitted on the hollow shaft, connected to the pressure shaft. The sample takers are located in the sample taking chamber along the longitudinal axis of the apparatus. The packer has a fixing nut (16) cut along the longitudinal axis into sectors, enveloped by a tightening spring and have an inner thread for interaction with the corresponding thread at the shaft lower end (17).  
 - USE - Used for well seam investigation.  
 - ADVANTAGE - The reliability is increased.  
 - (Dwg.1/4)  
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 AN - 1997-331393 [30]